

A loss-of-function variant in canine *GLRA1* associates with a neurological disorder resembling human hyperekplexia. Human Genetics.

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Alignment of the dog GLRA1 protein sequences (ENSCAFP00805003700 and XP_038391387.1) to human GLRA1 (UniprotKB:P23415) with the Clustal Omega algorithm.

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XP_038391387.1      MALELVDLASGQTLVLSEVCSGGAFLSFLSLAASKEAEAARSAPKPMSPSDFLDKLMG      60
ENSCAFP00805003700 -----MYSFNTLRRLYLWETIVFFSLAASKEAEAARSAPKPMSPSDFLDKLMG      47
sp|P23415|GLRA1_HUMAN -----MYSFNTLRRLYLWETIVFFSLAASKEAEAARSAPKPMSPSDFLDKLMG      47
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XP_038391387.1      RTSGYDARIRPNFKGPPVNVSCNIFINSFGSIAETTM DYRVNIFLRQQWNDPRLAYNEYP      120
ENSCAFP00805003700 RTSGYDARIRPNFKGPPVNVSCNIFINSFGSIAETTM DYRVNIFLRQQWNDPRLAYNEYP      107
sp|P23415|GLRA1_HUMAN RTSGYDARIRPNFKGPPVNVSCNIFINSFGSIAETTM DYRVNIFLRQQWNDPRLAYNEYP      107
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XP_038391387.1      DDSLDLDPSMLDSIWKPDLFFANEKGAHFHEITDNKLLRISRNGNVLYSIRITLTLACP      180
ENSCAFP00805003700 DDSLDLDPSMLDSIWKPDLFFANEKGAHFHEITDNKLLRISRNGNVLYSIRITLTLACP      167
sp|P23415|GLRA1_HUMAN DDSLDLDPSMLDSIWKPDLFFANEKGAHFHEITDNKLLRISRNGNVLYSIRITLTLACP      167
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XP_038391387.1      MDLKNFPMDVQTCIMQLESFGYTMNDLIFEWQEQGAVQVADGLTLPQFILKEEKDLRYCT      240
ENSCAFP00805003700 MDLKNFPMDVQTCIMQLESFGYTMNDLIFEWQEQGAVQVADGLTLPQFILKEEKDLRYCT      227
sp|P23415|GLRA1_HUMAN MDLKNFPMDVQTCIMQLESFGYTMNDLIFEWQEQGAVQVADGLTLPQFILKEEKDLRYCT      227
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XP_038391387.1      KHYNTGKFTCIEARFHLERQMGYYLIQMYIPSLILVILSWISFWINMDAAPARVGLGIT      300
ENSCAFP00805003700 KHYNTGKFTCIEARFHLERQMGYYLIQMYIPSLILVILSWISFWINMDAAPARVGLGIT      287
sp|P23415|GLRA1_HUMAN KHYNTGKFTCIEARFHLERQMGYYLIQMYIPSLILVILSWISFWINMDAAPARVGLGIT      287
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XP_038391387.1      VLTMTTQSSGSRASLPKVS YVKAIDIWMAVCLLFVFSALLEYAAVN FVSRQHKELLRFRR      360
ENSCAFP00805003700 VLTMTTQSSGSRASLPKVS YVKAIDIWMAVCLLFVFSALLEYAAVN FVSRQHKELLRFRR      347
sp|P23415|GLRA1_HUMAN VLTMTTQSSGSRASLPKVS YVKAIDIWMAVCLLFVFSALLEYAAVN FVSRQHKELLRFRR      347
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XP_038391387.1      KRRHHKSPMLNLFQEDEAGEGRNFNSAYGMGPACLQAKDGISVKANNNTTNPPAPSK      420
ENSCAFP00805003700 KRRHHK-----EDEAGEGRNFNSAYGMGPACLQAKDGISVKANNNTTNPPAPSK      399
sp|P23415|GLRA1_HUMAN KRRHHKSPMLNLFQEDEAGEGRNFNSAYGMGPACLQAKDGISVKANNNTTNPPAPSK      407
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XP_038391387.1      SPEEMRKLFIQRAKKIDKISRIGFPM AFLIFNMFYWIIYKIVRREDVHNQ      47
ENSCAFP00805003700 SPEEMRKLFIQRAKKIDKISRIGFPM AFLIFNMFYWIIYKIVRREDVHNQ      449
sp|P23415|GLRA1_HUMAN SPEEMRKLFIQRAKKIDKISRIGFPM AFLIFNMFYWIIYKIVRREDVHNQ      457
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